

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/011327

## A. CLASSIFICATION OF SUBJECT MATTER Int.Cl<sup>7</sup> C23C18/40

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
Int.Cl<sup>7</sup> C23C18/40, C23C18/52

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
Jitsuyo Shinan Koho 1922-1996 Toroku Jitsuyo Shinan Koho 1994-2004  
Kokai Jitsuyo Shinan Koho 1971-2004 Jitsuyo Shinan Toroku Koho 1996-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages  | Relevant to claim No. |
|-----------|---|-----------------------|
| X<br>Y    | JP 60-245783 A (International Business Machines Corp.),<br>05 December, 1985 (05.12.85),<br>Full text<br>& EP 164580 A2 & US 4655833 A      | 1-3, 5<br>4           |
| Y         | JP 2002-249879 A (Hitachi, Ltd.),<br>06 September, 2002 (06.09.02),<br>Full text<br>& US 2003-54094 A1                                      | 4                     |
| X<br>Y    | JP 3-287779 A (Toyota Central Research And Development Laboratories, Inc.),<br>18 December, 1991 (18.12.91),<br>Full text<br>(Family: none) | 1, 2, 5<br>4          |

☒ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

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"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search  
25 October, 2004 (25.10.04)

Date of mailing of the international search report  
09 November, 2004 (09.11.04)

Name and mailing address of the ISA/  
Japanese Patent Office

Authorized officer

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PCT/JP2004/011327

## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No. |
|-----------|--|-----------------------|
| A         | WO 01/63016 A (CIRCUIT FOIL LUXEMBOURG TRADING S.AR.L),<br>30 August, 2001 (30.08.01),<br>& JP 2003-524078 A & US 2003-12975 A1<br>& EP 1257693 A1 | 1-5                   |
| A         | JP 5-39580 A (Okuno Chemical Industries Co., Ltd.),<br>19 February, 1993 (19.02.93),<br>& US 5292361 A & EP 526334 A2                              | 1-5                   |